THE TECH

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DR. WHITNEY GIVES LECTURE ON ELECTRIC FURNACE

The Last Of A Series Of An Interesting Course Of Lectures About Chemistry

To bring out the idea that science and the arts are making steady progress, are never standing still or going backward, Dr. Whitney discussed yesterday the development of the electric furnace. The electric furnace, he pointed out, is a practical application of very elementary principles. At first there were more scoffers at the electric furnace than there were investigators of it, but despite the pessimism of many scientists, the furnace is today a practical success. In referring to such scoffing Dr. Whitney said, "If you have an idea do not be scared by the pessimism of those who know more than you do. A scheme or an idea is to progress what the headlight is to an automobile, while pessimism may be compared to the brake. A new idea does not at first need the brake of pessimism; facts will serve this purpose sufficiently well."

Although electric heating is between ten to a hundred times more expensive than heating by coal, it may nevertheless be used to good advantage under certain circumstances. If we want an extremely high temperature, as high as 3500 degrees C, it is necessary to use electrical means; if we want very rapid heating or if we wish to heat substances which shall not come in contact with products of combustion, the electrical method is the best; again, if we wish to save wear on apparatus which would be rapidly destroyed by heating externally, electricity is the best agent. In all such cases then, electric heating can be employed economically despite its high cost. Furthermore, by electric heating we can not only get a high temperature, but we can get the heat applied just where it is wanted.

After pointing out these advantages of electrical heating, Dr. Whitney went on to describe the different types of electric furnaces which have been and are being employed. The simplest electric furnace is one of the resistance type. To use this we must have a material which will stand the high temperature, will not oxidize, and will have a high resistance. Platinum is too expensive for ordinary purposes, and therefore the different kinds of high ressistance alloys have been developed. These are alloys of steel with chromium tungsten, tantalum, or titanium. Such alloys are used almost exclusively by the General Electric Co. for making electric flat-irons and heaters.

The tube furnace, which was described next, makes it possible to attain a temperature of 3500 degrees C. and to carry on reactions at this high temperature. To study certain reactions a vacuum carbon tube furnace was devised by a Tech graduate in the employ of the

(Continued on page 2.)

CROSS COUNTRY RUN

There is to be a cross-country run this afternoon. The men will start from the Needham station and will run a course of about six miles, ending at the station again. It is expected that a squad of about fifty men will go and they will be led by Coach Kanaly. The men are getting into good shape now and the outdoor work is putting them in good trim for the intercollegiates in May and for the other dual meets Tech may have with Wesleyan and other New England colleges. The last hare and hounds run was a great success, bringing out a record crowd.

TECH SHOW POSTER APPEARS MONDAY

Tropical Scene Illustrated In Brilliant Green And Yellow

Tech Show poster 1910 will be on sale on Monday morning. The proofs have already been approved and the posters are now being printed.

This year's poster is striking as well as being artistic, and in the opinion of all those who have seen the proofs, it is the best poster Tech Show has ever had. This year there were more good posters submitted than ever before, and it was no easw task deciding just what one should be the 1010 Poster.

Charles Cameron Clark, who drew the poster, is a Course IV. man.

The poster is done in three colors, black, green and dark yellow, on a white background. The central figure is the queen, avery charming damsel who is gaily dancing on the back of a huge green turtle, while a small monkey peeps up at her face from the lower corner with perfect evident joy and amusement depicted in his expression. Behind the queen there is a row of dancing girls, silhouetted against the background of palm trees, which contrast very effectively with the principal figure, the queen. A careful and well-done medallion of dancing figures forms an excellent background for the queen's head. At the top of the poster are the words, "Tech Show" in black letters, and just below the turtle the clever lettering, "The Queen of the Cannibal Isles." The background is dark yellow, which contrasts strikingly with the green, black and white.

The price of this year's poster will be the same as last year, namely 25 small bits of copper. The poster will be on sale at the "Cage" and Show Office, Room "B" Union. Be sure and send her one—she will appreciate it.

COURSE VII ISSUE

The Course VII. issue of The Tech will be published early next week. Watch The Tech, as it will be announced just when it will arrive.

LARGE ARCHITECTURAL EXHIBITION TO BE HELD

All Of The Larger Colleges Will Be Well Represented

On Saturday, April 2, the second annual exhibition of the Boston Architectural Club will be held at the club house. This is a most important exhibition and practically all of the larger colleges having architectural courses will be represented. The colleges which will have exhibits are Columbia, Harvard, Cornell, Pennsylvania, Carnegie Institute and the Mass. Institute of Technology.

Last year the exhibition was also held here in Boston at the Club, but it is the intention of those in charge of the affair that this exhibition shall be eventually a traveling one and all of the various colleges that are represented shall at some time have the exhibition held at their college. This is a most excellent idea, as it gives these colleges the advantages of having the work from the other colleges to review, and see just what other college men are doing.

THE ARENA

It is about time that some of the Track men visited Tech Field. Very few men have been out for practice in spite of the greatly improved conditions at the Field this spring. As usual the first year men are most abundant, and they promise revenge for that recent indoor track defeat.

Incidentally that 1912-1913 meet on April 16 ought to be well worth going to see. The Sophs have more 'varsity men, but the Freshies are a capable bunch, and are practicing with a zest that looks bad for '12.

The "weight" men are practicing with shot, hammer, and discus in the Field near Lowell, afternoons.

1913 has a likely looking bunch out for base-ball. Thompson who did so well in the quarter mile indoors, seems to have catcher's position coming his way. He will be a "Ty Cobb" on the bases.

When will we see that promised crew tearing the Charles river into bits of foam?

Sampson the 1913 half miler, has injured an ankle and will not be able to run for a few weeks.

George Cumings is out for the low hurdles again and looks faster than ever.

Chamberlin, who scored in the New England Intercollegiate shot-put for us last year, is working regularly and shows up well for the eary season.

Watkins hasn't practiced yet,—but watch him when he does settle down to work.

More fellows should follow the hare and hounds runs on Saturdays. They furnish lots of sport, and are easy enough for the most modest runners.

Next year's basket-ball should be top-notch. Practically all of this years' team will be back and with their experience together they will give some creditable performances.

THE APPLICATION BLANKS OF THE TECH SHOW OUT

System Same As Last Year---Complete Direction Given Below

By Monday evening all of the students, freshmen, sophomores, juniors and Seniors, will be deep in the so-called mysterious intricacies of filling out blank applications for seats for the performances of Tech Show 1910. Ever since the application blanks were first started there have always been a number of men who seemed to think that every space on the application was to be covered with writing. This year the management has endeavored to head off any industrious penman by labelling the cards, "Do not write in the space below," etc.

Each man will receive an application blank, a list of instructions, and a postal card. He should first read the instructions and find under what classification, A, B, C, etc., he comes; what price tickets he wants; how many, and for what day. The first line of the blank is labelled "Name," the second first two are self-explanatory; the third calls for A, B, or C, as above. The first column to the left is headed "Prices." The next three, under "Applied for," are for the "Day, Number and Amount." These should be filled out for the date for which the tickets are wanted, the number wanted, and the total cost: thus, 15 or 18, 3, $6.00; 15 or 18, 2, $1.00, etc.

In the left-hand corner, boxed in, will be found, "Raise, Lower, Change Day, Do Not Change Day." If all the seats a man applies for on one day are gone, and he wants the same price seats on ths other day, he should then cross out all but 'Change Day." If he wants the same day but wants cheaper seats if he cannot get those applied for, he should cross out all but "Do Not Change Day," and "Lower." At the lower right-hand corner is found "Scores ordered," and the number ordered should appear after tnis. No other part of the card is to be filled out by students.

These blanks are on no account to be used for application for out-of-town seats. They are strictly for Boston performances. All out of town seats should be applied for on a separate postal, not the one received with the application. Nothing but the applicant's name and address should be put on the postal received with the application, and it should be turned in with the application blank to the Cage or the Show Office.

When the assignment has been made the postal will be returned to the applicant stating seats assigned. When he calls for his seats(he should not fail to present his postal card in order to facilitate the filling of his order.

The things to be remembered are: The application blanks are for Boston only, all out-of-town applications to be filed separately, and postal should be presented when tickets are called for.

Any man not receiving an application or a notice of black-list should at once communicate with the management.

CALENDAR.

Wednesday, March 30.

3.00—1912 Baseball practice, Tech Field.
4.00—Crew practice.
6.00 P. M.—T. C. A. Dinner, Union.
Prof. Talbot's dinner to Chemists, Union.
8.00—Society of Arts, "Gyroscopes."
8.15—Catholic Club, Union.

THE TECH

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BOSTON, MASS., MARCH 26, 1910.

The Tech takes pleasure in announcing the appointments of David James McGrath 1912 to the News Board, and of Christopher Fallon 1912 to the Business Board as Assistant Advertising Manager.

E. B. Moore 1912 has been granted a leave of absence from the position of General News Editor.

When in the course of human events spring approacheth and with it the accompanying events of Junior week, a just respect for the veracity of the statements of mankind maintains that each man state the causes which impel the declaration and then to back up the aforesaid declaration by proof.

Wherefore, The Tech offers this public challenge to the Board of Editors of Technique 1911 to allow the latter an opportunity to retrieve the crushing defeats suffered by previous Technique Boards at the hands of The Tech. The place, Tech Field; the modus operandi, the hickory stick and leather pill.

In order that there shall be every opportunity for the Technique baseball players to make the best of the event, The Tech refrains from making any further requirements for the exact date and other minor arrangements.

It is suggested, however, that the date be chosen that conflicts least with the other happenings of the week, and also that the umpire be one at least known to both parties.

GENERAL NEWS

TELEGRAPH NEWS OF THE MORNING.

WEATHER REPORT.

Philadelphia, March 25.—The disintegration of the general sympathetic strike called to aid the men of the Rapid Transit Company continued yesterday. Hundreds of mill hands employed in the textile industries returned to work and building operations which were tied up by the general walkout were resumed in many parts of the city.

Wellesley, March 26.—The Wellesley tree day, the most elaborate fete of the college year, and the most difficult for the public to gain access to, may be open this year to about 1,200 guests, who have friends among the students. It is proposed by the Student Government Association to allow each student to purchase one ticket, at a price not exceeding $2, for a guest, and the faculty has been petitioned to permit it. The proceeds are to go toward the proposed students' building.

Boston, March 25.—It is not a crime to refuse to pay a taxicab fare, the full bench of the supreme court yesterday decided in the case of the Commonwealth against James C. Goldman. The court rules that chapter 103, section 55, of the Revised Laws, which makes it a crime to refuse to pay for the use of a horse or carriage, does not apply to taxicabs.

LECTURE BY DR. WHITNEY

(Continued from page 1.)

General Electric Co. Where a product is desired free from carbon, tungsten is used to build the furnace.

Furnaces for the electric smelting of iron were discussed and illustrated with the lantern slides by Dr. Whitney. Although these furnaces are not applied to any large extent at present, Dr. Whitney predicted that their use would grow rapidly. It is a significant fact that in Northern California pig-iron is being produced in electric furnaces.

Yesterday's lecture was the last of the series of three given by Dr. W. R. Whitney. The Chemistry Department intends to have more of such lectures given by men like Mr. Whitaker and Dr. Whitney who are authorities in their special line of work.

Daytonia, Fla., March 25.—A 300-mile race for a trophy valued at $5,000 was the feature scheduled for yesterday's automobile speed carnival on Daytonia beach. The race is free for all and the contestants include Barney Oldfield, David Bruce Brown, George Robertson, Ben Kerscher, and other drivers with stock cars.

New Orleans, March 25.—In the opposing camp here it was declared that Gen. W. B. Gordon, one of the leaders in the insurgent army of Nicaragua, was in New Orleans for the purpose of raising forces and securing financial aid to carry on the warfare against Madriz. Gen. Gordon arrived in New Orleans a few days ago from Bluefields.

WASHINGTON, D. C.

Washington, March 26.—Six regular Republicans have been selected to represent the majority of the House on the new rules committee that was created by the Norris resolution, passed last week after one of the greatest fights ever waged in the lower branch of Congress. They were: Representatives Dalzell of Pennsylvania, Smith of Iowa, Boutell of Illinois, Lawrence of Massachusetts, Fassett of New York and Smith of California.

The insurgents have no representation on the committee, but they left the caucus satisfied with the result.

Washington, March 26.—The committee on legal affairs reported in the senate yesterday a bill providing that Oct. 12 in each year shall hereafter be a legal holiday and shall be known as "Columbus Day."

Berlin, March 26.—The ministry of war has offered prizes agregating $4500 for the best altitude and passenger carrying performances made by German subjects in German-built aeroplanes during aviation week at Johannisth next August.

St. Louis University would like to meet Syracuse on the gridiron next Thanksgiving Day in St. Louis. The Mound City boys ever would seek trouble.

Washington, March 19.—Assistant Secretary Beekman Winthrop of the navy department announced yesterday that 350 marines now in Nicaragua would be brought back to the United States on the Prairie. The marine strength in Nicaragua was 1459 men. How long the rest of the marines will remain is a question to be settled within a few days.

Talbot Pendleton, the crack sprinter, is out for the freshman baseball team at Princeton. This will be a big loss to the track team.

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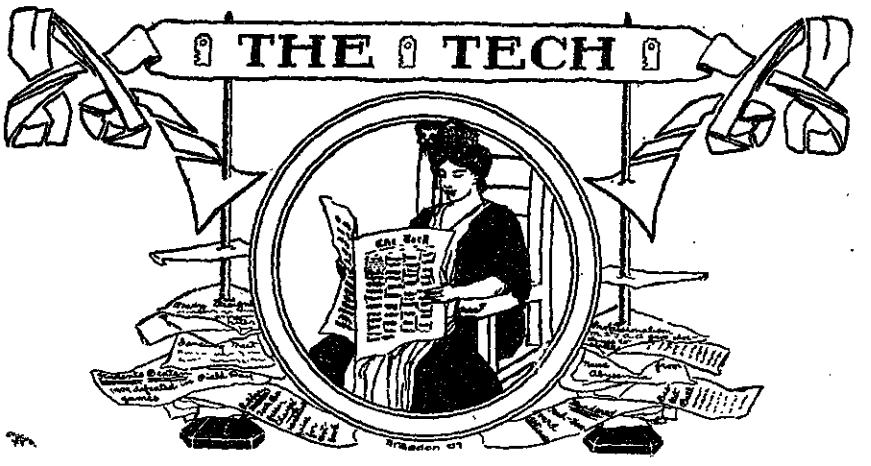

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COLLEGE NEWS.

A group of students at Missouri rebuked a fusser recently by placing his trunk on the porch of the object of his affections.

Pennsylvania's new school of architecture will be second only to that of Paris.

A gift of three buildingsc to the University of Toronto has been announced, coming from the estate of the late Hart A. Massey. The buildings will be of stone and will be constructed in the Gothic style of architecture.

The profits from "Koanzaland," the comic opera presented at Michigan this year exceeded $2,000.

Orville Wright will address the aviators who meet in Philadelphia on April 1st and 2d for the inter-collegiate conference of aeronautics. At that time a flying contest with the university machines of the Curtiss and Antoinette types will be held.

California is to hold a military ball.

President David Starr Jordan of Stanford University has announced his intention of retiring in six years. At that time he will become eligible for a retiring fund for superannuated educators.

Missouri's track athletes are said to have foresworn the wearing of cotton suits and to have provided themselves with silk togs for this year's workout.

The latest fashion in signing excuse blanks has been set by an Armour Tech man, who wrote "unavoidably sick."

Three hundred and fifty girls at Minnesota have signed an honor pledge against cribbing.

The University of Ilinois debating team were fortunate in winning a double victory over the University of Ohio and Indiana University on Friday evening, March 11. This debate was one of a series in the State University Debating League of which Ohio, Indiana and Illinois are members. Illinois argued in favor of a graduated Federal income tax at the contest held at the University Auditorium in Urbana. A team to support the negative side of the same question was sent to Indiana.

Max Kuyassoff of Yale is reported to have stepped half a mile in 1.56 4-5. It is to be hoped that this time won't lead to any such false hopes at New Haven as were stirred up by R. A. Spitzer's performance in the Pennsylvania relay carnival last spring.

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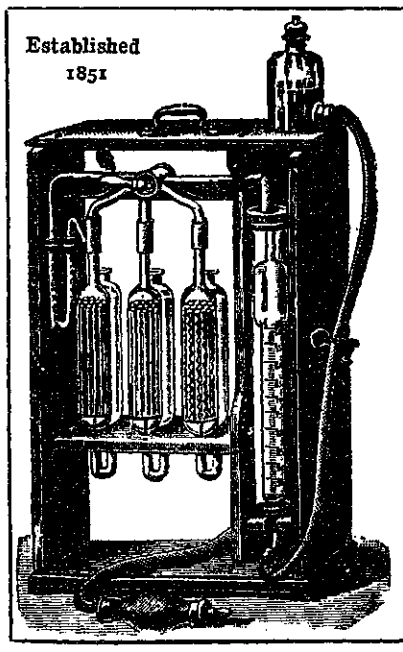

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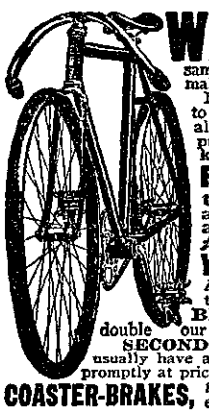

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NOTICES

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FIRST YEAR.
SHADES AND SHADOWS.
March 24, 1910.

Exercises in this course will be held on Mondays, 2-3 and Fridays, 12-1, in Room 40A Pierce Building, beginning Monday, April 4, except on May 9, when the Monday exercise will be transferred to Wednesday, May 11, at 2 P. M.

Students are requested to bring to the first exercise T-square, 45 degree triangle, scale, etc.; paper will be furnished.
WALTER HUMPHREYS,
Registrar.

1910.

Ballots have been mailed to those members of the class who have paid their dues in full for the election of Class Day Marshall. Ballots will be received at the Cage until 4.15 P. M., Thursday, March 31st, 1910.

Hurray for Ho! Who's Ho? He's a Jap who's made the Harvard soccer team. That's who's Ho.

Joe Horner recently broke the University record for running 35 yards, doing the distance in _ seconds.

It is announced that the next issue of the Pelican, the comic journal of the University of California, will be edited and published by members of the California faculty. This plan was devised with a view to having college life depicted from the standpoint of the teaching profession.

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THE HARVARD-YALE DEBATE

The subject for the Harvard-Yale freshman debate at New Haven on Friday evening, April 29, is: "Resolved, That the United States should adopt a system of subsidies, other than our present mail subsidies, for the encouragement of our merchant marine." Harvard has until next Monday to decide which side of the question it will defend. The preliminary trials will be held Wednesday. Twelve men will be chosen and from the third trial on next Monday, six men will be retained, three of whom will be picked by the judges to debate against Yale.

Various Freshmen have asked who was the captain of the track team. For the benefit of all those who are in doubt, he is R. H. Allen, 1910. He is the big tall fellow who used to be at Tech Fied early last fall.

Professor William Moore of Cornell haes received an appointment to a chair in the factulty of the British Agricultural College in the Transvaal. He will leave soon for a three-year term there.

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